

Mission Gorge Road Property Demolition

Appendix B

Asbestos/Lead Prework Survey: Mission Gorge Buildings, 10130 &
10144 Mission Gorge Road, Santee

*Prepared by County of San Diego, Environmental Health Community Health Division
April 3, 2009*



County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
COMMUNITY HEALTH DIVISION
9325 HAZARD WAY, SAN DIEGO, CA 92123
(858) 694-2888 FAX (858) 694-3559
1-800-253-9933
www.sdcdeh.org

JACK MILLER
ASSISTANT DIRECTOR

April 3, 2009

TO: Michael Pietrzak, Project Manager
Project Management Division
Department of General Services

FROM: Michael Dorsey, Chief
Community Health Division
Department of Environmental Health

**ASBESTOS/LEAD PREWORK SURVEY: MISSION GORGE BUILDINGS, 10130 & 10144
MISSION GORGE RD., SANTEE**

The attached electronic staff report provides results of the above referenced project. The report specifies recommendations to reduce/eliminate any identified problems.

If you have further questions, or desire a hard copy of this report and are unable to print from the electronic format, please contact Gloria Chan, Industrial Hygienist at (858) 694-2140 or e-mail gloria.chan@sdcounty.ca.gov.

MICHAEL DORSEY, Chief
Community Health Division
Department of Environmental Health

MD: gc: 0809-134.doc

Attachment

cc: Dahvia.Lynch@sdcounty.ca.gov
Felipe.Arce@sdcounty.ca.gov
Gloria.Chan@sdcounty.ca.gov



COUNTY OF SAN DIEGO

INTER-DEPARTMENTAL CORRESPONDENCE

April 3, 2009

TO: Dan Tappen, Supervising Industrial Hygienist
Occupational Health Program
Community Health Division (O-566)

FROM: Gloria Chan, Industrial Hygienist II
Occupational Health Program
Community Health Division (O-566)

ASBESTOS/LEAD PREWORK SURVEY: MISSION GORGE BUILDINGS, 10130 & 10144 MISSION GORGE RD., SANTEE

SUMMARY

Subsequent to a request by Michael Pietrzak, Project Manager, Department of General Services, I conducted an asbestos and lead-based paint survey for the County-owned buildings located 10130 & 10144 Mission Gorge Rd in Santee. The survey was conducted in anticipation of a planned demolition of the buildings.

Survey results indicated the presence of asbestos in the black mastic on the Quonset Hut, and roof mastic on the garage, fire station, and community office buildings. Asbestos-cement (transite) pipes were observed on the roof of the fire station, and on the roof and in planters around the community building. In addition, the plaster on the Quonset Hut contained less than 1 percent (<1%) asbestos and should be considered asbestos-containing construction materials (ACCM). All other sampled building materials were not asbestos-containing.

The lead survey did reveal the presence of high concentrations of lead [>1.0 milligrams per square centimeter (mg/cm^2)] in the painted surfaces on the window components of the fire station and door casing of the garage building. In addition, high lead concentration was also detected in the ceramic tiles located in the restroom and kitchen of the fire station. All other tested surfaces should be assumed to contain lead at lower concentrations. For more detailed information, please see the DISCUSSION and RECOMMENDATIONS sections that follow.

DISCUSSION

The Occupational Health Program (OHP) was requested to perform an asbestos and lead survey of various buildings at 10130 and 10144 Mission Gorge Rd in Santee for the demolition of the buildings. The property consists of five structures including a garage, former fire station, Quonset hut, metal shed, and a community office building.

I collected samples of suspect building materials for asbestos analysis. LA Testing analyzed the samples for asbestos content. Analytical results of the tested building materials are attached. The following table summarizes the asbestos sample results for the tested building materials.

| Material Description | Material Location | Asbestos Result |
|-----------------------------------------|-------------------------------|-----------------|
| Community Building | | |
| Drywall with Tape/Mud | Walls and Ceilings | ND |
| Plaster | Walls and Ceilings | ND |
| Sheet Flooring – Gray | Floors | ND |
| Assoc. mastic on sheet flooring | Floors | ND |
| 1'x1' Ceiling Tiles, Hole Pattern | Ceilings | ND |
| Assoc. mastic on CT | Ceilings | ND |
| HVAC Gasket | Exterior | ND |
| HVAC Tape/Mud | Exterior | ND |
| Asbestos-Cement (Transite) Exhaust/Pipe | Planter Area and Roof Exhaust | Assumed ACM |
| Roofing Material Sheeting & Felt (Core) | Roof | ND |
| Roofing Mastic | Around penetrations | 5% Chrysotile |
| Fire Station | | |
| Drywall with Tape/Mud | Walls and Ceilings | ND |
| Plaster | Walls and Ceilings | ND |
| Acoustic Spray Ceiling | Garage Ceiling | ND |
| Window Caulking | Windows | ND |
| 1'x1' Ceiling Tiles | Office Area Ceilings | ND |
| Sheet Flooring – White | Kitchen | ND |
| Sheet Flooring – White w/blue squares | Restroom | ND |
| Sheet Flooring – White w/yellow | Restroom | ND |
| Electrical Wire Insulation | Walls | ND |
| HVAC Joint Tape/Mud | Roof | ND |
| Black Mastic behind wood paneling | Office | ND |
| Mastic beneath carpet | Office Area | ND |
| Paper with black mastic | Attic | ND |
| Exterior Plaster | Exterior | ND |
| Asbestos-Cement (Transite) Exhaust | Roof Exhaust | Assumed ACM |
| Roofing Sheeting & Felt (Core) | Roof | ND |

| Material Description | Material Location | Asbestos Result |
|--------------------------------|-----------------------------|-----------------|
| Roof Mastic | Around Roof Penetrations | 7% Chrysotile |
| Quonset Hut | | |
| Plaster | Exterior and Interior Walls | <1% Chrysotile |
| Floor Coating on Concrete | Floor | ND |
| Ceiling Tile | Office Ceiling | ND |
| Linoleum | Office | ND |
| Paper w/black mastic | Interior Ceiling | ND |
| Black Mastic | Exterior Walls | 6-8% Chrysotile |
| Garage | | |
| Window Caulking | Windows | 2% Chrysotile |
| Roofing Sheeting & Felt (Core) | Roof | ND |
| Roof Mastic | Around roof penetrations | 5% Chrysotile |

ND – None Detected

Lead-Based Paint

The lead survey strategy was largely based on the Housing and Urban Development (HUD) guidelines protocol for lead-based paint (LBP). A Niton XL X-Ray Fluorescence (XRF) analyzer, a direct reading instrument that can detect lead at high concentrations, was used to measure lead on the various building components. The instrument measures and expresses a lead concentration in mg/cm². According to the HUD guidelines, a sample containing 1.0 mg/cm² or greater is considered to be LBP ("high" concentration). Regardless, lead readings (even those less than 1.0 mg/cm²) could cause employee exposure and property contamination during aggressive demolition without normal construction dust/debris controls.

The window components on the fire station and door casing on the garage building indicated levels greater than 1.0 mg/cm². All other tested components were less than 1.0 mg/cm². Regardless, lead readings (even those less than 1.0 mg/cm²) could cause employee exposure and property contamination during aggressive demolition without normal construction dust/debris controls. In addition, the ceramic tile was tested in the restroom and kitchen of the fire station was found to be above the 1.0 mg/cm² limit.

All other tested surfaces should be assumed to contain lead at lower concentrations. The California Occupational Safety and Health Administration (Cal/OSHA) construction requirements for lead are found in Title 8, California Code of Regulations (T8CCR), Section 1532.1. Cal/OSHA does not specify the concentration of lead in material, below which the standard does not apply. A summary of the lead sampling results is attached.

CONCLUSIONS/RECOMMENDATIONS

GENERAL

1. The County should inform all contractors or affected County personnel of the asbestos and lead results for this building. A copy of this survey should be provided to the contractor so that they may take the appropriate precautions (e.g., provide training, personal protective equipment, exposure monitoring, etc.) to protect their employees from exposures. Cal/OSHA has specific regulations pertaining to these types of hazards, and contractors have the responsibility of protecting their workers. Contractors should contact our office with any questions about asbestos and lead-related work activities prior to submitting their bid proposals.
2. The Contractor is responsible for complying with all Cal/OSHA requirements (including the Asbestos and Lead in Construction Standards) and Cal/EPA requirements regarding waste disposal.
3. Disposal and recycling issues regarding the identified ACM and LBP building materials will need to be addressed based on the final destination of the material. OHP and the contractor need to decide on a disposal/recycling plan for the ACMs, LBP building components, and ceramic wall materials based on the best available environmental and cost-effective disposal option.

The contractor, through the County Project Management Team, should also address other potential hazardous waste/recycling issues outside the scope of this survey, (e.g. various cleaners/containers, sharps, biological waste, etc.) and universal waste issues (e.g. fluorescent tubes, mercury-containing switches, etc).

It is recommended that the contractor's approach be consistent with the *County* C&D Recycling Ordinance. Wayne Williams, Waste Planning & Recycling Program Coordinator, County Department of Public Works, at 858-874-4108, can be contacted for more information on the County's C&D Recycling Ordinance.

4. This survey addressed only those suspect building materials that were accessible. If suspect ACM or LBP building materials not addressed in this report are identified during the course of the demolition (e.g., underground piping, etc.), stop work. Contact OHP in order that the suspect material(s) can be identified before proceeding on with any activities.
5. The Contractor must take measures to prevent exposure to County property, County employees, and the public. DGS should determine an appropriate mechanism to keep the public and unauthorized County personnel out of the work zones (e.g., site security, barriers).

ASBESTOS

6. An asbestos abatement contractor who is registered with Cal/OSHA to perform asbestos-related work must perform disturbance and/or removal of ACM or ACCM. Cal/OSHA requirements for removal work and other applicable regulations pertaining to ACM or ACCM must be followed during construction activities.
7. The contractor should submit an Asbestos Workplan indicating the proposed abatement methods and control measures they will use to remove the ACM and ACCM. The County prior to job start-up must review and approve the Asbestos Workplan. A work authorization has been established

with OHP, but may need to be increased to provide on-site project surveillance of the abatement contractor.

8. Notification must be made to Cal/OSHA prior to asbestos-related work. Notification may be necessary to the Air Pollution Control District (APCD) if mechanical methods are used by the contractor during the removal process.

LEAD

9. The contractor should submit a Lead Workplan indicating the proposed demolition methods and measures they will use to address the lead-containing components above. The contractor must have, at a minimum, completed and satisfied the Cal/OSHA lead training requirements. The County prior to job start-up must review and approve the Lead Workplan. In addition, OHP is available to provide project surveillance activities during this project since a work authorization has been established to cover time and sampling costs associated with the project.
10. There are no specific Air Pollution Control District (APCD) notification requirements for LBP activities, but there is a notification requirement for Cal/OSHA (for projects that disturb greater than 100 ft² of paint).

If you have any questions, please contact me.

A handwritten signature in dark ink, appearing to read "Gloria Chan", followed by a long horizontal flourish line.

Gloria Chan, Industrial Hygienist II
Occupational Health Division

gc: 0809-134.doc

Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------------------------|---------------|------------------------------------------------|-----------------|-------------------|---------------------------|---------|---------------|
| <u>Community Building</u> | | | | | | | |
| 05-Mar-09 | OB-1401 | Ceiling Tile 1'x1' Hole Pattern | Ceiling | Ceiling | ND | N/A | PLM |
| 05-Mar-09 | OB-2401 | Ceiling Tile 1'x1' Hole Pattern | Ceiling | Ceiling | ND | N/A | PLM |
| 05-Mar-09 | OB-1004 | Drywall with tape & mud | Ceiling | Ceiling | ND | N/A | PLM |
| 05-Mar-09 | OB-1005 | Drywall with tape & mud | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-2004 | Drywall with tape & mud | Ceiling | Ceiling | ND | N/A | PLM |
| 05-Mar-09 | OB-2005 | Drywall with tape & mud | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-1390 | Floor Covering - Linoleum Gray | Floor | Floor | ND | N/A | PLM |
| 05-Mar-09 | OB-2390 | Floor Covering - Linoleum Gray | Floor | Floor | ND | N/A | PLM |
| 05-Mar-09 | OB-1680 | Gasket/Packing HVAC | Exterior | Exterior | ND | N/A | PLM |
| 05-Mar-09 | OB-1900 | Insulation Attic | Attic | Attic | ND | N/A | PLM |
| 05-Mar-09 | OB-1670 | Joint Tape/Mud HVAC | Exterior | Exterior | ND | N/A | PLM |
| 05-Mar-09 | OB-1670 | Joint Tape/Mud HVAC | Exterior | Exterior | ND | N/A | PLM |
| 05-Mar-09 | OB-1450 | Mastic/Glue on 1'x1' Hole Pattern Ceiling Tile | Ceiling | Ceiling | ND | N/A | PLM |
| 05-Mar-09 | OB-2450 | Mastic/Glue on 1'x1' Hole Pattern Ceiling Tile | Ceiling | Ceiling | ND | N/A | PLM |

ND-None Detected; N/A-Not Applicable; PLM-Polarized Light Microscopy; XRD-X-Ray Diffraction; TEM-Transmission Electron Microscopy; SEM-Scanning Electron Microscopy. Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%. Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

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Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------|---------------------|-------------------------------------|-----------------|-------------------|---------------------------|---------|---------------|
| 05-Mar-09 | OB-1390 Mastic | Mastic/Glue on sheet flooring | Floor | Floor | ND | N/A | PLM |
| 05-Mar-09 | OB-2390 Mastic | Mastic/Glue on sheet flooring | Floor | Floor | ND | N/A | PLM |
| 05-Mar-09 | OB-1038 | Plaster | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-2038 | Plaster | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-3038 | Plaster | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-1038 Finish | Plaster Finish Coat | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-2038 Finish | Plaster Finish Coat | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-3038 Finish | Plaster Finish Coat | Wall | Walls | ND | N/A | PLM |
| 05-Mar-09 | OB-1092 Shingle | Roofing Material 2nd Layer Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-1092 Shingle2 | Roofing Material 3rd Layer Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-1092 Shingle3 | Roofing Material 4th Layer Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-2092 Shingle3 | Roofing Material black/tan sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-1092 Felt1 | Roofing Material Felt | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-2092 Felt | Roofing Material Felt | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-1092 Felt2 | Roofing Material Felt, 2nd Layer | Roof | Roof | ND | N/A | PLM |

ND-None Detected; N/A-Not Applicable; PLM-Polarized Light Microscopy; XRD-X-Ray Diffraction; TEM-Transmission Electron Microscopy; SEM-Scanning Electron Microscopy.
Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%.
Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

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Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------------------|------------------|--------------------------------------|-----------------|-------------------|---------------------------|---------|---------------|
| 05-Mar-09 | OB-1095 | Roofing Material mastic | Roof | Roof | 5% Chrysotile | N/A | PLM |
| 05-Mar-09 | OB-1092 | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-2092 Shingle | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-2092 Shingle2 | Roofing Material Sheeting, 2nd layer | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | OB-2092 Tar | Roofing Material Tar | Roof | Roof | ND | N/A | PLM |
| <u>Fire Station</u> | | | | | | | |
| 05-Mar-09 | FS-1042 | Acoustic Spray Ceiling | Garage Area | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-2042 | Acoustic Spray Ceiling | Garage Area | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-3042 | Acoustic Spray Ceiling | Garage Area | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-1051 | Caulking Compound Window | Interior | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-1053 | Caulking Compound Window | Exterior | Exterior Windows | ND | N/A | PLM |
| 05-Mar-09 | FS-1400 | Ceiling Tile 1'x1' | Office Area | Office Area | ND | N/A | PLM |
| 05-Mar-09 | FS-1042 drywall | Drywall Ceiling | Garage Area | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-2042 drywall | Drywall Ceiling | Garage Area | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-1004 | Drywall with tape & mud | Walls | Walls | ND | N/A | PLM |

ND-None Detected; N/A-Not Applicable; PLM-Polarized Light Microscopy; XRD-X-Ray Diffraction; TEM-Transmission Electron Microscopy; SEM-Scanning Electron Microscopy. Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%. Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

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Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------|------------------------|-----------------------------------------------|-----------------|-------------------|---------------------------|---------|---------------|
| 05-Mar-09 | FS-2004 | Drywall with tape & mud | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-1301 Linoleum | Floor Covering - Linoleum White | Kitchen | Kitchen | ND | N/A | PLM |
| 05-Mar-09 | FS-1301 Mastic | Floor Covering - Linoleum White | Kitchen | Kitchen | ND | N/A | PLM |
| 05-Mar-09 | FS-1302 Linoleum | Floor Covering - Linoleum White w/Blue Square | Restroom | Restroom | ND | N/A | PLM |
| 05-Mar-09 | FS-1302 Mastic | Floor Covering - Linoleum White w/Blue Square | Restroom | Restroom | ND | N/A | PLM |
| 05-Mar-09 | FS-1303 Linoleum | Floor Covering - Linoleum White w/Yellow | Restroom | Restroom | ND | N/A | PLM |
| 05-Mar-09 | FS-1303 Mastic | Floor Covering - Linoleum White w/Yellow | Restroom | Restroom | ND | N/A | PLM |
| 05-Mar-09 | FS-1080 | Insulation Electrical Wire | Wall | Wall | ND | N/A | PLM |
| 05-Mar-09 | FS-1610 | Joint Tape/Mud HVAC | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | FS-1050 | Mastic/Glue Black behind Wood | Office Area | Office Area | ND | N/A | PLM |
| 05-Mar-09 | FS-1200 | Mastic/Glue Carpet | Office Area | Office Area | ND | N/A | PLM |
| 05-Mar-09 | FS-1600 | Paper w/Black Mastic | Attic | Attic | ND | N/A | PLM |
| 05-Mar-09 | FS-1038 Finish Coat | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-1038 Plaster | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-2038 Finish Coat | Plaster | Walls | Walls | ND | N/A | PLM |

ND=None Detected; N/A=Not Applicable; PLM=Polarized Light Microscopy; XRD=X-Ray Diffraction; TEM=Transmission Electron Microscopy; SEM=Scanning Electron Microscopy. Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%. Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

Friday, April 03, 2009

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Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------|------------------------|-------------------------|-------------------|-------------------|---------------------------|---------|---------------|
| 05-Mar-09 | FS-2038 Plaster | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-3038 Finish Coat | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-3038 Plaster | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-4038 Finish Coat | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-4038 Plaster | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-5038 Finish Coat | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-5038 Plaster | Plaster | Walls | Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-1042 Plaster | Plaster Ceiling | Garage Area | Garage | ND | N/A | PLM |
| 05-Mar-09 | FS-1039 | Plaster Exterior | Exterior Walls | Exterior Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-2039 | Plaster Exterior | Exterior Walls | Exterior Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-3039 | Plaster Exterior | Exterior Walls | Exterior Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-4039 | Plaster Exterior | Exterior Walls | Exterior Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-5039 | Plaster Exterior | Exterior Walls | Exterior Walls | ND | N/A | PLM |
| 05-Mar-09 | FS-1092 Felt | Roofing Material Felt | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | FS-1095 | Roofing Material Mastic | Roof Penetrations | Roof Penetrations | 7 % Chrysotile | No | PLM |

ND-None Detected; N/A-Not Applicable; PLM-Polarized Light Microscopy; XRD-X-Ray Diffraction; TEM-Transmission Electron Microscopy; SEM-Scanning Electron Microscopy.

Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%.

Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

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Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------|------------------|---------------------------|-----------------|-------------------|---------------------------|---------|---------------|
| 05-Mar-09 | FS-1092 Shingle | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | FS-2092 Shingle | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | FS-2092A Shingle | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |

Quonset Hut

| | | | | | | | |
|-----------|--------|---------------------------------------------------|-----------------|----------------------------|----------------|-----|-----|
| 05-Mar-09 | Q-1410 | Ceiling Tile | Office | Office | ND | N/A | PLM |
| 05-Mar-09 | Q-1300 | Floor Covering - Linoleum | Office | Office | ND | N/A | PLM |
| 05-Mar-09 | Q-1037 | Floor Covering - Misc. Coating on top of concrete | Floor | Floor | ND | N/A | PLM |
| 05-Mar-09 | Q-1095 | Mastic/Glue Black | Bottom of Walls | Exterior - Bottom of walls | 6% Chrysotile | N/A | PLM |
| 05-Mar-09 | Q-2095 | Mastic/Glue Black | Bottom of Walls | Exterior - Bottom of walls | 8% Chrysotile | N/A | PLM |
| 05-Mar-09 | Q-1600 | Paper w/black mastic | Interior | Interior | ND | N/A | PLM |
| 05-Mar-09 | Q-1038 | Plaster | Walls | Walls | <1% Chrysotile | N/A | PLM |
| 05-Mar-09 | Q-2038 | Plaster | Walls | Walls | <1% Chrysotile | N/A | PLM |
| 05-Mar-09 | Q-3038 | Plaster | Walls | Walls | <1% Chrysotile | N/A | PLM |

ND-None Detected; N/A-Not Applicable; PLM-Polarized Light Microscopy; XRD-X-Ray Diffraction; TEM-Transmission Electron Microscopy; SEM-Scanning Electron Microscopy.
Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%.
Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

Friday, April 03, 2009

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Asbestos Bulk Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd, Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Field Sample# | Material Description | Sample Location | Material Location | Asbestos Content and Type | Friable | Analysis Type |
|----------------------|----------------|---------------------------|-----------------|-------------------|---------------------------|---------|---------------|
| <u>Garage</u> | | | | | | | |
| 05-Mar-09 | G-1051 | Caulking Compound Window | Exterior | Exterior | 2% Chrysotile | N/A | PLM |
| 05-Mar-09 | G-1092 Felt | Roofing Material Felt | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | G-2092 Felt | Roofing Material Felt | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | G-1095 | Roofing Material Mastic | Roof | Roof | 5% Chrysotile | N/A | PLM |
| 05-Mar-09 | G-1092 Shingle | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |
| 05-Mar-09 | G-2092 Shingle | Roofing Material Sheeting | Roof | Roof | ND | N/A | PLM |

ND-None Detected; N/A-Not Applicable; PLM-Polarized Light Microscopy; XRD-X-Ray Diffraction; TEM-Transmission Electron Microscopy; SEM-Scanning Electron Microscopy.
Asbestos Types include: Chrysotile, Amosite, Crocidolite, Actinolite, Tremolite, and Anthophyllite. The detection limit is between 1/10 to 1 percent by area and is dependent on the size of the asbestos fibers and the matrix of the sampled material. Trace - Asbestos was identified in sample; concentration less than quantitation limit of 1%.
Vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter that these fibers cannot be detected by PLM. For such samples, more sensitive analytical

methods, e.g. XRD, TEM, and SEM, are recommended if greater certainty about asbestos content is required.

Friday, April 03, 2009

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Lead-Based Paint Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd., Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Sample# | Material Description | Sample Location | Condition | XRF Reading (mg/cm2) | LBP? |
|----------------------------------|---------|------------------------|-----------------|-----------|----------------------|------|
| <u>Community Building</u> | | | | | | |
| 05-Mar-09 | OB-01 | White Cinderblock Wall | Exterior | Fair | 0.01 | No |
| 05-Mar-09 | OB-02 | White Cinderblock Wall | Exterior | Fair | 0.02 | No |
| 05-Mar-09 | OB-03 | White Cinderblock Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | OB-04 | Tan Wood Fascia | Exterior | Fair | 0.02 | No |
| 05-Mar-09 | OB-05 | White Wood Rafter | Exterior | Fair | 0.6 | No |
| 05-Mar-09 | OB-06 | White Wood Eaves | Exterior | Fair | 0.07 | No |
| 05-Mar-09 | OB-07 | Brown Wood Fascia | Exterior | Fair | 0.07 | No |
| 05-Mar-09 | OB-08 | White Wood Rafter | Exterior | Fair | 0.6 | No |
| 05-Mar-09 | OB-09 | White Wood Eaves | Exterior | Fair | 0.5 | No |
| 05-Mar-09 | OB-10 | Teal Wood Door | Exterior | Fair | 0.15 | No |
| 05-Mar-09 | OB-11 | Teal Wood Door Casing | Exterior | Fair | 0.18 | No |
| 05-Mar-09 | OB-12 | Blue Wood Door | Exterior | Fair | 0.17 | No |
| 05-Mar-09 | OB-13 | Blue Wood Door Casing | Exterior | Fair | 0.05 | No |
| 05-Mar-09 | OB-14 | White Wood Rafter | Exterior | Fair | 0.04 | No |
| 05-Mar-09 | OB-15 | Brown Wood Fascia | Exterior | Fair | 0.04 | No |
| 05-Mar-09 | OB-16 | White Wood Eaves | Exterior | Fair | 0.1 | No |
| 05-Mar-09 | OB-17 | White Wood Shed Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | OB-18 | White Wood Door | Exterior | Fair | 0.4 | No |
| 05-Mar-09 | OB-19 | White Wood Door Casing | Exterior | Fair | 0.03 | No |
| 05-Mar-09 | OB-20 | White Wood Door | Exterior | Fair | 0.01 | No |
| 05-Mar-09 | OB-21 | White Wood Door Casing | Exterior | Fair | 0.05 | No |

A Niton XL XRF was used to measure lead on specific building components expressing a lead concentration in milligram per square centimeter (mg/cm2). According to the HUD Guidelines, a sample containing 1.0 mg/cm2 or greater is considered to be a LBP ("high" concentration). However, readings less than 1.0 mg/cm² could have lead present in lower concentrations that might cause employee exposure during aggressive removal. If a painted surface was not tested, it should be assumed to be a high LBP surface until tested. Any building component similar to the building components identified as LBP above should be treated as LBP.

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Lead-Based Paint Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd., Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Sample# | Material Description | Sample Location | Condition | XRF Reading (mg/cm2) | LBP? |
|----------------------------------|--------------|----------------------------------|-----------------|-------------|----------------------|------------|
| <u>Community Building</u> | | | | | | |
| 05-Mar-09 | OB-22 | White Wood Door Casing | Interior | Fair | 0.06 | No |
| 05-Mar-09 | OB-23 | White Cinderblock Wall | Interior | Fair | 0.16 | No |
| 05-Mar-09 | OB-24 | White Cinderblock Wall | Interior | Fair | 0.07 | No |
| 05-Mar-09 | OB-25 | White Wood Door | Interior | Fair | 0.00 | No |
| 05-Mar-09 | OB-26 | Brown Wood Door Casing | Interior | Fair | 0.1 | No |
| 05-Mar-09 | OB-27 | White Drywall Wall | Interior | Fair | 0.00 | No |
| 05-Mar-09 | OB-28 | White Wood Cabinet | Interior | Fair | 0.00 | No |
| 05-Mar-09 | OB-29 | White Plaster Wall | Interior | Fair | 0.07 | No |
| 05-Mar-09 | OB-30 | White Plaster Wall | Interior | Fair | 0.00 | No |
| <u>Fire Station</u> | | | | | | |
| 05-Mar-09 | FS-01 | Tan Plaster Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | FS-02 | Yellow Plaster Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | FS-03 | Yellow Wood Door Casing | Exterior | Fair | 0.16 | No |
| 05-Mar-09 | FS-04 | Yellow Plaster Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | FS-05 | Yellow Wood Window Casing | Exterior | Fair | 2.1 | Yes |
| 05-Mar-09 | FS-06 | Yellow Metal Window Sash | Exterior | Fair | 2.9 | Yes |
| 05-Mar-09 | FS-07 | Yellow Wood Wall | Exterior | Fair | 0.37 | No |
| 05-Mar-09 | FS-08 | Yellow Plaster Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | FS-09 | Yellow Wood Window Casing | Exterior | Fair | 2.5 | Yes |
| 05-Mar-09 | FS-10 | Brown Wood Fascia | Exterior | Fair | 0.27 | No |
| 05-Mar-09 | FS-11 | Yellow Wood Rafter | Exterior | Fair | 0.05 | No |

A Niton XL XRF was used to measure lead on specific building components expressing a lead concentration in milligram per square centimeter (mg/cm²). According to the HUD Guidelines, a sample containing 1.0 mg/cm² or greater is considered to be a LBP ("high" concentration). However, readings less than 1.0 mg/cm² could have lead present in lower concentrations that might cause employee exposure during aggressive removal. If a painted surface was not tested, it should be assumed to be a high LBP surface until tested. Any building component similar to the building components identified as LBP above should be treated as LBP.

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Lead-Based Paint Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd., Santee

Collected By: Gloria Chan

Project #: 0809-134

| <i>Date Collected</i> | <i>Sample#</i> | <i>Material Description</i> | <i>Sample Location</i> | <i>Condition</i> | <i>XRF Reading (mg/cm2)</i> | <i>LBP?</i> |
|-------------------------------|----------------|------------------------------------|--------------------------|------------------|-----------------------------|-------------|
| <u>Fire Station</u> | | | | | | |
| 05-Mar-09 | FS-12 | Yellow Wood Eaves | Exterior | Fair | 0.08 | No |
| 05-Mar-09 | FS-13 | Brown Wood Fascia | Exterior | Fair | 0.04 | No |
| 05-Mar-09 | FS-14 | Yellow Wood Rafter | Exterior | Fair | 0.18 | No |
| 05-Mar-09 | FS-15 | Yellow Wood Eaves | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | FS-16 | White Plaster Wall | Interior | Fair | 0.6 | No |
| 05-Mar-09 | FS-17 | White Wood Wall | Interior | Fair | 0.0 | No |
| 05-Mar-09 | FS-18 | White Plaster Wall | Interior | Fair | 0.0 | No |
| 05-Mar-09 | FS-19 | White Plaster Wall | Interior | Fair | 0.2 | No |
| 05-Mar-09 | FS-20 | White Wood Cabinet | Interior | Fair | 0.06 | No |
| 05-Mar-09 | FS-21 | Yellow Ceramic Tile Counter | Interior | Fair | 5.1 | Yes |
| 05-Mar-09 | FS-22 | Brown Ceramic Tile Counter | Interior | Fair | 5.1 | Yes |
| 05-Mar-09 | FS-23 | White Wood Door | Interior | Fair | 0.01 | No |
| 05-Mar-09 | FS-24 | White Wood Door Casing | Interior | Fair | 0.15 | No |
| 05-Mar-09 | FS-25 | Tan Ceramic Tile Wall | Interior Restroom | Fair | 5.1 | Yes |
| 05-Mar-09 | FS-26 | White Wood Wall | Interior | Fair | 0.0 | No |
| 05-Mar-09 | FS-27 | White Wood Window Sill | Interior | Fair | 0.0 | No |
| 05-Mar-09 | FS-28 | White Drywall Wall | Interior | Fair | 0.0 | No |
| 05-Mar-09 | FS-29 | White Plaster Wall | Interior | Fair | 0.0 | No |
| <u>Garage Building</u> | | | | | | |
| 05-Mar-09 | G-01 | White Wood Wall | Exterior Garage Bldg | Fair | 0.02 | No |
| 05-Mar-09 | G-02 | White Wood Door | Exterior Garage Bldg | Fair | 0.02 | No |

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Lead-Based Paint Sample Report

Sampling Location:

County Property - Santee
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Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Sample# | Material Description | Sample Location | Condition | XRF Reading (mg/cm ²) | LBP? |
|---------------------------|---------|-------------------------------|----------------------|-----------|-----------------------------------|------|
| <u>Garage Bldg</u> | | | | | | |
| 05-Mar-09 | G-03 | White Wood Door Casing | Exterior Garage Bldg | Fair | 1.3 | Yes |
| 05-Mar-09 | G-04 | White Wood Door Casing | Exterior Garage Bldg | Fair | 0.00 | No |
| 05-Mar-09 | G-05 | White Wood Window Sash | Exterior Garage Bldg | Fair | 0.28 | No |
| 05-Mar-09 | G-06 | White Wood Window Casing | Exterior Garage Bldg | Fair | 0.16 | No |
| 05-Mar-09 | G-07 | White Wood Window Sill | Exterior Garage Bldg | Fair | 0.05 | No |
| 05-Mar-09 | G-08 | White Wood Window Sill | Exterior Garage Bldg | Fair | 0.00 | No |
| 05-Mar-09 | G-09 | White Wood Corner Trim | Exterior Garage Bldg | Fair | 0.01 | No |
| 05-Mar-09 | G-10 | White Wood Wall | Exterior Garage Bldg | Fair | 0.1 | No |
| 05-Mar-09 | G-11 | White Wood Door Casing | Exterior Garage Bldg | Fair | 1.5 | Yes |
| 05-Mar-09 | G-12 | White Wood Fascia | Exterior Garage Bldg | Fair | 0.41 | No |
| 05-Mar-09 | G-13 | White Wood Rafter | Exterior Garage Bldg | Fair | 0.27 | No |
| 05-Mar-09 | G-14 | White Wood Eaves | Exterior Garage Bldg | Fair | 0.48 | No |
| <u>Metal Shed</u> | | | | | | |
| 05-Mar-09 | MS-01 | Brown Wood Door | Exterior Metal Shed | Poor | 0.00 | No |
| 05-Mar-09 | MS-02 | Brown Wood Door Casing | Exterior Metal Shed | Poor | 0.00 | No |
| 05-Mar-09 | MS-03 | Brown Metal Door Casing | Exterior Metal Shed | Fair | 0.1 | No |
| <u>Quonset Hut</u> | | | | | | |
| 05-Mar-09 | Q-01 | Yellow Stucco Wall | Exterior | Fair | 0.00 | No |
| 05-Mar-09 | Q-02 | Yellow Stucco Wall | Exterior | Fair | 0.01 | No |
| 05-Mar-09 | Q-03 | Brown Wood Garage Door Casing | Exterior | Fair | 0.02 | No |
| 05-Mar-09 | Q-04 | Brown Wood Door | Exterior | Fair | 0.0 | No |
| 05-Mar-09 | Q-05 | Brown Wood Door Casing | Exterior | Fair | 0.04 | No |
| 05-Mar-09 | Q-06 | White Wood Door | Interior | Fair | 0.00 | No |

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Lead-Based Paint Sample Report

Sampling Location:

County Property - Santee
10130 & 10144 Mission Gorge Rd., Santee

Collected By: Gloria Chan

Project #: 0809-134

| Date Collected | Sample# | Material Description | Sample Location | Condition | XRF Reading (mg/cm2) | LBP? |
|-------------------------------|---------|---------------------------|-----------------|-----------|----------------------|------|
| <u>Quonset Hut</u> | | | | | | |
| 05-Mar-09 | Q-07 | White Wood Door Casing | Interior | Fair | 0.09 | No |
| 05-Mar-09 | Q-08 | Yellow Plaster Wall | Interior | Fair | 0.00 | No |
| 05-Mar-09 | Q-09 | White Wood Door | Interior | Fair | 0.18 | No |
| 05-Mar-09 | Q-10 | White Wood Door Casing | Interior | Fair | 0.29 | No |
| 05-Mar-09 | Q-11 | Red Metal Post | Interior | Fair | 0.02 | No |
| 05-Mar-09 | Q-12 | White Wood Wall | Interior | Fair | 0.01 | No |
| 05-Mar-09 | Q-13 | Yellow Plaster Wall | Interior | Fair | 0.0 | No |
| <u>Exterior Stairs</u> | | | | | | |
| 05-Mar-09 | S-01 | White Wood Stairs | Exterior | Fair | 0.0 | No |
| 05-Mar-09 | S-02 | White Wood Stair Handrail | Exterior | Fair | 0.0 | No |
| 05-Mar-09 | S-03 | White Wood Stair Floor | Exterior | Fair | 0.0 | No |

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